Army Reveals 75 mm. Plane Cannon

New gun is largest known weapon ever mounted on bomber; given first test against Japs......Page 10

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Aviation Stocks Decline

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CAB Eyes Intrastate Problem

Maintains hands-off policy, at same time examining traffic to see that interstate laws are obeyed.....Page 27

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Long Range Gives Allied Fighters Edge Large capacity drop tanks permit

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NWLB Permits Piecework Rate Revision Decision affecting Aircraft Products

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U.S. Leads World in Helicopters

Grover Loening, NACA Chairman, regrets exaggerated claims, sees technical difficulties ahead...Page 13

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Chamber Group Asks Termination Law



Heads United Aircraft: Forty-year-old H. Mansfield Horner, moved up from general manager of Pratt & Whitney Aircraft to presidency of United Aircraft Corporation in realignment of top executive officers.

pracritime America.

THE AVIATION NEWS

Washington Observer

SECRETS OUT - Secretation was rife in the cantal the past week up the uncome neersher of buretofure clearly held military servets which baye came to light through afficial nances, and feether consoletion on the narothle resource of old regular contest on the invasion of Europe. Australia and was enickly appolemented and successfed by the War Department. Finelly revauled was the new water injection device which adds power to warplene engines. Then with accounts of the destruction they have wrought. There were hints from the Navy that we have secret weapons which pule any coneriord by one energies, and the Chief of Ordmore referred to other movieries; arms

ATTACKS ON RESUN-to evolute packs:

THE "TEXTOG COPTRESS" NAME, White a different viewnoist has been expressed by Air. Marshal Sir William Walsh, bend of the BAF delegation in the United States. Sir William says he eften thinks "Flying Fortress" is a "had name." and explains that it gives the impression of something defensive, while in fact it is highly sfiemive. He suggests Plying Buttleships, perhorn, as a regre and name Threater they are hattleships in the truest sense—they fight." Six William year have samething there, but Firms Fortres to ment people ungreate saything but defensive action and the "Phine Portrees" will parties of its rese-

Whate House to the version war surpcise to self. pedal pay ideas they may have had on Pearl

that any observance of Dor. 7 should be as sol-Office of Wer Information nor the War Produc-

reflection of the attack on Pearl Harbor counst obscure the magnificent job done by the sircraft industry trace that day, a task which rome of the most conservative receivers or the recon-try privately thought would be improvible when the Persident called for 50,000 nightness and then for airelanes at the rate of 160,000 a year from an industry which was hardly and of swaddiese chillen. Aircraft unit production for Nenumber our show to \$ 668. That is the sixonit

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AVIATION NEW

December 6, 1943

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December 1

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creased armerent on our places last sammer handletge of the cames at of vant importance to possession of the war. The American surcreast industry and the American Perces have again done the impossible.

AMERICAN SITEFLINES — Disputition of augina was good that may only in Hillian augmentation of the control of th

INVENTORING—Deventuries is reducing personally are reported at more record levels, perrenting sectoral positivities, particularly on farnering sectoral positivities, particularly on faration and the sectoral positivities of the sectoral position hand in order to meet production demands and unbigated orders. These agreems to be some quantum as to window man of these social quantum and the production demands activities the configuration also positive for nevercession of parts consisted for reconserved plaines.

BRUTISH SUBPLUSES—In Britans, the government has deceled that the Baard of Yrole will conclusive the dynamic all surplus throw off conclusive the dynamic and in surplus through the subsection of plants urgratly model for procedurin and to the possibility of converting into trading entairs same of the previous resogner required for poverament work. At the same time, it was not rateful out that the government with the proceduring the same time, it was not rateful out that the government with the power than the proceduring the procedure of the pro

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Washington Observer

ENTERPHISE—Just have ready every homies in a receive an import of its incorporation in deconational of a dispital of its incorporation in deconational of a dispital from the Moneyards, Cald, "Enterprise". A mean stay cites, supplies, American Adrillon's application for extension of its Los Angeles-New York; result to London and the application of Southwest Alexanys for a feeder route to Bild, the analysis own of Occasid is Los Angeles. The Supplies for e-colours between London and Colours and

EXPLIDITING COMMITTEE—The Aircraft War Production Council, West Cearl, has set up a Production Custod, Unit Cearl, has conjugate Production Expediting Connuities with the depletive of creating set-ups within the plants to keep all workers busy all the time by making groups of production weeken Robble. West-ore cought with a lag in the fibre of materials, for example, with the children operately to are except, with the children operately to reversion of the production time which are overlanded with materials and helpful wheeling and the production of the production

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VETTRANS—Aircraft plant personnel directors use a new production utilization in the employment of the honerably discharged veterant at World War II. The presence of a vestram with a king or with same other physical handing afters a streng psychological carb in absentence, week showleves and quits.

AVIATION NEWS . December 5, 1943



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Power Booster

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Aviation Distributors Urge Plan To Dispose of War Surpluses

Personal Legan commission appeared by President for rask to "take government out of business," in St. Louis convention By ALEXANDER MISCRELY

Proposal to handle surplus war power to sell the materials and inmembers of the Avsition Destribus | DemailStation-"The view

Provinces should be made joint-

Pour directors re-elected were

Coast Guard, Navy Test Helicopters

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tion at Billions, Man, and in Sen-



M-H Controls speed aircraft engine testing

SPECIAL attenues remote count: subablisty, take down operational data.

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MINNEAPOLIS. HONEYWELL

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1 Guales temperature and fow cossess. 4 Cubernsenirdoward semperature custod. B. Assessable rulesy alone

> explains on hand impediate of price and tame of disposal with

Horner Succeeds Wilson as New United Aircraft Corp. President

Former head and Raycroft Walsh, former sensor vice president, named vice chairmen; other progressors precured

The promotion of several practic principal officers will treat to cal officers of United America Corp strengthen the owneral executive which places in the presidency, 40- department and also operations. It year-old M Manufuld Horney, has continued United's fixed polary of



Eugene E. Wilson is relanguashing Baycroft Walth, formerly seesar





Asserted in 1925. In October 1959.

J. F. McCorthy

* Horner Veteran Euralevee Horn-

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Walsh, 16 years an officer and secretary 1942 was named acress

New Chamber Board Is Topflight Group Determination of the appropriate an-

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Glenn L. Martin, Glenn L. Martin Ca., and C. J. Brukner, Warn

AVIATION NEWS . December 6, 1943

b Name Charge—Under discusses at the membership meeting were and closely related manufacturing.

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Expanded Schedules Strain Labor Supply

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Wilson Takes Over WPB Operations Post Executive vice-chairmen succeeds

Mowever, surcould components are our was said to have been to persands numerous WPD exceptives to renguations of mon important not



75 mm. Cannon Gives "Mitchell" Formidable Firing Power

Army permits approuncement of new gun, largest known weapon

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TENTING A TURBET AT LOW TEMPERATURE

NORTH AMERICAN UNVEILS AIR-BORNE 75 MM. CANNON

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NWLB Approves Ruling To Permit Firm To Revise Piecework Rates

Occision affecting Republic Aircraft Products Division of Aviation Corp. involves possible wage cut; summary of week's activities in U.S. bureaus and war agencies.

In one of the first cases to come its, but only to discrepant whether an agreement mound May 1, 1941. award made last March, NWLB org-

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KIM CHIEF-

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Personal Plane Men See Big Job Ahead Gearing waens that nuccess de pends on strends's utility, not

Leaders of the personal surcealt This may be partly true, but Jo-

b Selbur Avistice-"To the person-

gettion of Grover Loroine, WPR's nal make of plane, but in terms of Actionster's hrested future" before



KEY CARGO MEN WITH UNITED:

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must be taught its own role in in-

U. S. Leads World in Helicopters But Big Problems Remain-Loening Chusman of NACA Committee regrets exaggerated china, see

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of the NACA's belicopter committee. Serious Prablems - Limitations are Reachism leateness of Arts and Sci- but at will be many years before Gentung believes the glumor of enoes. America is "notably in the 200 mph can be exceeded. Per-

AVIATION NEWS . December 5 1847

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WTS Contractors

Hear Dark Outlook

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Postwar Ostlock-Terristive pro-DOUBLE VISION DETECTOR engines, diesel engines, faels and

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SAE Will Discuss

THE AIR WAR

Long-Range Escort Fighters Give American Bombers Edge on Nazis

Large-capacies deep tanks bernit burseit planes to form protective screen all the way to narrost and back on long raiding missions

Muriumer to go all the way on the Improvements in compensat are ac-

However, General Maker warned speed, managementality, fast climb they would devise methods for slopand heavy fire power was succes of pany our heavy bomber attacks.

frees and equipment would be so-Defeate Galax in the Bace-Ore

LONG-RANGE FIGHTERS SCORE

moin dolter, medium attack bomber and lone range Packard Rolls-Rouce power plant, two-sweet, two-

Rumors you can circulate!

THOSE ARE MARVELOUS GLIDERS

GENERAL AIRCRAFT BUILDS FOR THE ADMY AIR FORCE.

YOU CAN SAY THAT AGAINI BUT HAVE YOU HEARD ABOUT GENERAL AIRCRAFT'S TWO NEW SKYFARFRS? IN SAFFTY AND SPEED THEY WILL DEVOLUTIONIZE POST-WAR PRIVATE FLYING ONE IS ROADABLE.

TOO*



of To hoor more about it, write to . . . The General Aircraft Corporation, Lang Island City (5) N. Y.

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THUNDERBOLT COMES HOME: Stardy construction stored than Republic P-47 Thursderbolt solucion amplied out for attack by a group of Nam Agisters white as a bamber accept

AWPC Cites Cost Of Excess Training High transport of employee cost

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Aero Chamber Members Ask Law on Contract Termination

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e accounts reconvable and inventories, a exceed current limbilities, such as a answalls overel to employees for dwages, in suppliers for material and pursa, and to government for takes, (recognished refunds, obsaices and progress payments recovered against expenditures on war contracts at the material and of last year. Show tall

planed, 'because 'bene corrapease have been forced to part prefited bene been from the part prefited been forced, and have used force and have used for working anymai their nevers for trees due to the part of t



PERSONAL PLANE PROPONENTS:

Members of the Personal Aircraft Convention of the Auronaxinol Chamber of Consorrior neal recently in Washington to discount meabal problems and plans. Among the leaders on, left to right. John & P. Mergon, markey of the Chamber's sently-irrented personal plans department, Wilson A. Merg, Scious durance, Consolidated Valves Aircraft, and Joseph T. Gest.



Used to Speed Work

Navy Raises Goal

ments and products This can cub-Job Training System

• Spicerated Training-Education at

to 31 000 Planes Know promis increase from 27 000

1963 has been remarkable, 1966 is b Flort Strength Duckled - With

Combat Planes Treble-Secretary the year with soveral hundred

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Ten of the 14 operating in Japaney, 1962, reported at that

Plywood Study Canadian research subcommerce

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ous types of oil separators

equipment of airplanes tent activity at Mercury ... complete tooling and give considerable advantage in quality price and meeting schedules.









AVIATION NEWS * December 6, 1962

TIMING DOUGLAS ASSEMBLY LINE

G. E. Engineer Admits Gas Turbine Gains

eas turbing has been strendeded by Flightle Strage-Thus, when a Dr Banford A Mass, General Elec-Dr. Moss, 71-year-old investor of ought to do? He does not life sub-

For 10-Hour Shifts

Progress Reported-"21 is true that

b Examples -- As an example, he descrahed one of the tricks used by

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Bell Abandons Plan

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\$3 A ten-hour day would meen \$4 Many employees appear a tensolvedules and a loss in output of

k Studied by Other Forms - The

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Schamum, tooling director, F. B. College, encountercing executive and

AVIATION NEWS . December 6, 1962

AVIATION NEWS . December 6 1943



CHINESE AIRMEN VISIT HAMILTON STANDARD: Ges. P. T. Mess (left), commendes peneral of the Christie Air Force is

ing director, and M. G. Seagons, qualdistinct manager for Office of Deferan

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Sorper Thousand recently resigned

THE NEWS VIEWS-



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CATALOG Bullimore, the PEM-1 and Draw-to

New 16-Page



RELAYS and Accessories . .

This 16-rape catalog gives operate A life it-bells caused have about

standing promild selected; as types of que routch

Chings 12, 18.

FINANCIAL

War News and Tax Selling Bring Decline in Aircraft Shares

Pence stocks also move lower, with some courties in "war babus" showing strong resistance toward price recession

Br ROGER WILLO

b Tax Selling-la years past, aboormal lowe have been resistered dur-Further, present lows take most

b List at Year's Love-Virtually the

range from 17 to 54 percent. The

1962 Market Range ... Major Vatetall Companies

Corp market values the holdens

Aviation Men Curtail Trade in Own Stocks Separather SEC report shows only slight activity by airline oficials

Arritron officials did hittle tradition

Pan American Airways' June 10.000 in trusts be created For the

On the braving side, Suprand

b Welfe an Baying Side-Western Air's Thomas Wolfe bourbt 280 one to 4,869 During Sentember

Financial Reports

a Transport heated & Western Air lower than for the 1963 period. Aftpaced with \$1,338,617, or \$1.61 a

TRANSPORT

Federal Laws Urged To Clarify Intrastate Aviation Situation

Civil Associative Board maintains handsoff policy, at the same time extraining traffic to see that intersent regulations are obeyed. No MERLEN MICKEL

extrastate activity, but stage the

September, 1940, spaint Colonial

The intrastate avoiding punds has love and a 12-passencer Ford tra-

scheduled fliths. (American serves the sike of going into Westgarton

A.Shartle, Pilichts......New Arr Transrest Corn, which has around in the Tecnemes, Kentucky, Otro, Perm-

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TRAFFIC CONTROL TOWER ON WHEELS Dreaming above Cost Agrangation Administration's new moledy our trad-

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Alabama-In Alabama, Waterman Wickless-In Medocan meanston with the Michigan Corporation

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Departies Held Up-Gilbert T F. Kelly has processed to submit

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h Hallmonter Lane Sought - Great and a helicouter route between De-

Creek and Kalerungo Helimpters

stating the opinion that "nothing

commerce, section 411 of the Act

Mexican Plane Needs Listed by AA Official De Birsk specifies possenger-

cargo craft carrying 6-3 persons By SCHOLER BANGS

Karl de Bhule (left), tald Dusslas Appents sales errorts that Memorit

Traffic Control

ser lanes expansion. He ex-

supervisesdent, American Airlines. De Elinde is ogreo traffic supervision-

around utility and ability to earry tires for lending in swempy areas

a Utility Paragraph For audience. A. Smith, western cargo traffic six-Agrency and held the position of

Air Education Drive

Six Applicants File For Route Permits

PCA seeks to extend service to link U. S and Caraclina capath. By BARBARA FREDERICK

Molescriptor Line-Watter S Pull-

F Washington - Ottown Service -



Questan Chalfort, USNR, "parmally and Fort College Cole, via Better F Helicopter Route-Landon Lawren

Clevinger, Centralia, Wash, Gled

one round true daily. When feaultic.

Army Staffs 23 CAA Flight Control Units

vices to war piles. Was Department has placed its

AVIATION NEWS . Decreber 6, 1943



SWEDES SEEK PLANES craft Co's horse after in Sense Mon-

The Army service is provided by

Figures Called -- CAA's Air Truffe



restonal offices, and was training eveters. Most recently articular

Suggestion System Over 700 ideas adopted by plants,

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Use INVINCIBLE ANGLE DRILL ATTACHMENTS For Drilling and Reaming in close corners and tight spots!



*Speed Your Deillion *Wear Broner, Last

#Three Trees-41 Doeble Angle emily writt leckt or unlocks

ungle within 560°. Write-Wire-Phone



ALL-CARGO PLANE INTERIOR FITTING-

AVIATION NEWS . December 5, 1965

-CAB ACTION-

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CHARLESTON HOST TO AIRLINES

Pail, Air Link Seen In Canadian Set-up

lines will be complementary to By TAMES MONTAGNES

A strong postwar relationship beway Club "In other words author FEelfroods' Contribution-Hr expressed doubt that either of Conthe are transportation industry todirectly, by the parent rad com-

tions used to the war effort, he fore-

Mir Carpe-Dickens described atr

postwar traffic Air cures will re-

The problem, however, will not

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KLM Office Shifted To overcome a distance handsoup.

More Airliners

The Armer is reported to be



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shops the Logistar of received a Ken The route will add 560 moles to

Hed Cross, announcing fight from

nupoles in the first flight were do-

Assaying the Helicopter

Capen Longing's carrially prepared concar center today and the problems which will present its wide public use for at least five or ten years as a

In an address of less than ten typed passu, drivand in Brooklyn December 3, the WRR and NACA. official sketched an outline which should be distrib-

Paying tribute to the "eminently successful recorganical implements in this country. Mr. Locating makes it clear that the heliconter's long-runus ment and disdiffuserment when utenst confidence

planes, activities by the 48 wings in connection with

peccuring for the Air Forces will be stepoed up

Marked expension of flying operations has been

Military regulations have been essed in the

Purific coast area to permit more CAP services.

Col. Early Johnson reveals. Formation of CAP units at aviation olants throughout the country but been underway for weeks.

CAP is one of the two great wartime operations

Army, of which CAP is an auxiliary, is nothermore

CAP's sutlook is in sharp contrast to that of the

ice's national system of flight schools. WTS at this moment has no firm commitment that its life will

he extended beyond June 30 Some of its contracts

expire in early spring. Such assurance is still de-

will be required to pass through the development

Yet continued disservantion of rosy people can about the possibilities of day after temperow can do "Time and again in avoition's history an oversangure ouble appraisal of a new development

sets for shead of the facts—so much so as to cause a disappointment at finding a lesser future disclosing itself," he says. "No mistance comes more focefuture development of the heliespeer"

Looking Ahead for Civil Flying

Tryn. Am Parmou's consumption has sent a letter pendent on possesse of the omrabus Lea Bill or the to personnel discipuing that "the outlook for creas will awaken to the account and future value With worst addition of 286 Army-owned light

of WTS to them and to the nation-W7S, buildes preparing thousands of young men

may be able to accommodate all future replacements. WTS should not be permitted to let up its page. "If we are to hold the place which we will R. McLean Stewart, executive director of training of WTG and has many 10% and only as inflow the air. We need then for overl axistion. We canthis war. In a year or two after the peace they will have settled down to civilian pursuits. Nor can we

The WTS system should be maintained as a stress

concern. It should not be allowed to start disinterrating for lack of ausgrennents



Fast, experienced production in wood for the Aircraft Industry. Wings, assemblies, precision parts from the 15 coordinated factories of Grand Rapids Industries, Inc.



ch blade puts a centrifugal load more than 50 tons on its bearing, but s to swivel freely when the pitch is altered.

et that, comparatively, is the easiest part of the bearing oblem. Various tilting forces must be taken into considtion; those due to inertia, those due to heavy propelling rust, and those due to gyroscopic effects.

I these forces, applied at a long leverage, have to be carried a few rollers on opposite sides of a base of only 63/4" span.

es section shows the specially developed Timken Tapered liler Bearing that carries these complex loads with freem of action, but without a hint of backlash. In the postur era of air transport make sure you get the advanges of Timken Bearings not only on propeller featherg mechanisms but in many other points of application pich will be revealed in future issues of this magate. The Timken Roller Bearing Company, Canton, Ohio.

HIGHER LOAD CAPACITY INCREASED STABILITY

Wherever the Timken Tapered Roller Bearing is used it results in higher load capacity and increased stability against every combination of stress. This illustration shows Timken Bearings as mounted in the hub of a controllable pitch propeller blade.

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